

# Laurier Mantel

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## SKILLS

### SOFTWARE

Ruby • Java • node.js • Python  
Chef • C# • Coffeescript  
HTML/CSS • Arduino

### DATA

Apache Kafka • SQL  
Confluent Platform • D3.js  
NoSQL(MongoDB, redis)  
Apache Spark • Amazon Redshift

## EDUCATION

### UNIVERSITY OF WATERLOO

BASc. SYSTEMS DESIGN

### ENGINEERING

Expected April 2019 | GPA: 3.60

## COURSEWORK

### UNDERGRADUATE

- Statistics
- Programming in C++
- Algorithms in Python and Java
- Engineering Economics
- Marketing Economics
- Human Factors Design Engineering
- Hardware Design
- Circuits, Instrumentation, and Measurements

### COMPETITIONS

- Ontario Engineering Competition Participant | Jan 2016 | Waterloo
- World Mining Competition Top 10 Finish | Nov 2015 | Saskatoon
- Hack the North Participant | Sept 2015 | Waterloo
- Waterloo Engineering Competition Winner | July 2015 | Waterloo • UW
- Apprentice: Startup Consulting Participant | Nov 2014 | Waterloo

## ABOUT

### INTERESTS

- Grade 8 RCM Classical Guitarist
- Full stack foosball player
- Sports: basketball, volleyball, soccer, skiing, dodgeball
- Cooking
- Economics

## EXPERIENCE

### DATA ENGINEER INTERN | SHOPIFY INC.

May 2016 – Aug 2016 | Toronto, ON

- Integrated Confluent Kafka Connect to stream kafka events to HDFS using Chef, scripts communicating with Zookeeper and Kafka.
- Developed data visualization tool for conversion rates using D3.js, Lita chatbot library and Amazon Redshift to make product analytics data accessible in Slack
- Created a script to leverage Apache Spark to convert 1 trillion JSON records in HDFS to parquet.
- Supported product managers and analysts with product analytics by designing sales funnel flows, instrumenting features, constructing queries, and debugging Spark jobs using Hue

### FULL STACK DEVELOPER | SHOPIFY INC.

Sept 2015 – Dec 2015 | Ottawa, ON

- Developed and released *Inventory Transfers* feature, allowing 200,000 merchants to manage incoming inventory in a streamlined manner using Ruby on Rails, javascript, coffeescript, MySQL.
- Implemented maintenance tasks to maintain consistent database records.
- Leveraged open source projects such as Large Hadron Migrator to run online database migrations
- Instrumented product to analyze user activity using Google Analytics, Splunk and Kafka events
- Worked in an agile, test-driven-development environment and continuously deployed code to one of the largest Ruby on Rails applications in the world (Shopify)

### SOFTWARE DEVELOPER | GRANTEK SYSTEMS INTEGRATION INC.

Jan 2015 - April 2015 | Montreal, QC

- Developed ASP.NET model-view-controller web app for a client using C#, SQL Server, Entity Framework as a manufacturing communications tool
- Designed and built user interfaces for industrial manufacturing systems for several clients using industrial UI technology

### CAMPUS REPRESENTATIVE | COMMUNITTECH

April 2015 - May 2016 | Waterloo, ON

- Promoted Communittech, a technology accelerator, to increase brand recognition on campus and tech companies in the Waterloo region

## PROJECTS

### BITNOMICS

Fall 2016 | Hack the North 2016 | Waterloo, ON

Realtime bitcoin blockchain data processing pipeline built with Apache Kafka, Python consumers, a CockroachDB datastore, and a node.js/React web app for visualization.

### SAVEME

Winter 2016 - present | Independent project | Waterloo, ON

Ongoing project with the goal of leveraging advances in the capabilities of mobile technology to drastically improve emergency response. Built an application using node.js, MongoDB, twilio and Heroku

### RECEIPTSHEEP

Fall 2015 | Hack the North 2015 | Waterloo, ON

Built a cloud based ExpressJS application to optimize the expense approval process for finance departments. The application integrated with state of the art accounting systems such as Quickbooks. Deployed the application to the Linode cloud.